Datasheet for ABIN6656373

anti-SMAD7 antibody

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Overview

Quantity:	100 µg
Target:	SMAD7
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Purpose:	SMAD7 Antibody
Immunogen:	SMAD7 Antibody was produced from whole rabbit serum prepared by repeated immunizations with SMAD7 peptide.
Isotype:	IgG
Cross-Reactivity (Details):	A BLAST analysis was used to suggest cross-reactivity with Anti-SMAD7 from human, rat, sheep and mouse based on 100 % homology with the immunizing sequence.
Purification:	Anti-SMAD7 Antibody was purified by Protein G chromatography.

Target Details

Target:	SMAD7
Alternative Name:	SMAD7 (SMAD7 Products)
Background:	Synonyms: MADH7, MADH8 Background: Anti-SMAD7 MADH7 antibody detects human SMAD7 MADH7. SMADs are

Target Details

	members of the MAD-related family of molecules. MAD-related proteins are a family of intracellular proteins that are essential components in the signaling pathways of the serine/threonine kinase receptors of the transforming growth factor beta superfamily. SMADs can be divided into receptor-regulated SMADs (R-SMADs: SMAD1, 2, 5, 8 and 9), common-mediator SMAD (co-SMAD: SMAD4), and inhibitory SMADs (I-SMADs: SMAD6 and SMAD7). SMAD1, SMAD5, SMAD8 and SMAD9 have high degrees of homology and antibodies are available that recognize sequences common to all of them. SMAD8 and SMAD9 are typically used as alternate names for one another in the literature. Anti-SMAD7 MADH7 antibody is ideal for investigators involved kinase and phosphatase research. Gene Name: SMAD7
Gene ID:	4092
NCBI Accession:	NP_001177750
UniProt:	O15105
Pathways:	Interferon-gamma Pathway, Cell-Cell Junction Organization

Application Details

Application Notes:	Optional[Neutralization_Dilution]: 2-5 µg/mL
Comment:	Anti-SMAD7 antibody is tested for use in WB, ELISA, and IHC. Expect a band approximately 46kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Restrictions:	For Research Use only

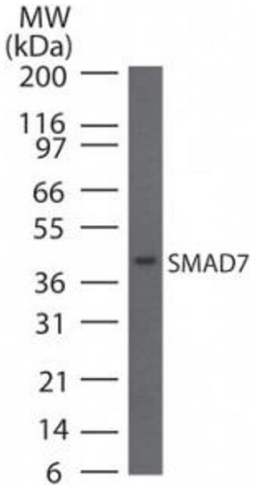
Handling

Format:	Liquid
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 0.05 % BSA Preservative: 0.05 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C

Handling

Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

Images



Western Blotting

Image 1. SMAD7 MADH7 Western Blot. Western Blot of Rabbit Anti-SMAD7 MADH7 antibody. Lane A: Lysate from HepG2. Primary antibody: SMAD7 MADH7 at 5 µg/mL for overnight at 4°C. Secondary antibody: rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 80 kDa for SMAD7 MADH7. Other band(s): none.